Development of Non-Conventional Energy Generation

4799. PROF. M. SANKARALINGAM: Will the Minister of NON-CONVENTIONAL ENERGY SOURCE be pleased to state:

(a) whether it is a fact that wind non-conventional energy generation reached the saturation point in some States;

(b) if so, the names of the States;

(c) whether it is a fact that inventives like 25 per cent subsidy and five years exemption from income-tax for the generation of non-conventional energy is not extended to new entrepreneurs who are in this field; and

(d) whether Government would consider extending the same type of concession for some more years to increase the generation of non-conventional energy in the country?

THE MINISTER OF STATE OF THE MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES (SHRI M. KANNAPPAN): (a) No, Sir.

(b) Does not arise.

(c) No, Sir. No direct subsidy is provided by the Government for commercial wind power project. Any industrial undertaking which is set up in any part of India for generation of power at any time during the period beginning 1st April, 1993 and ending on 31st March, 2003, is entitled to a two tier fiscal benefit which includes tax holiday for five years. Thus, a new undertaking set up before 31st March, 2003 can avail of these benefits.

(d) The Government considers such proposals periodically, at the time of the annual budgetary exercise.

Action Plan for Non-Conventional Energy Resources

4800. SHRI BRATIN SENGUPTA: Will the Minister of NON-CONVENTIONAL ENERGY SOURCES be pleased to state:

(a) whether Government have prepared an action plan to explore the non-conventional energy resources of the country;

(b) if so, the potential for non-conventional energy in the country; and

(c) what is the observation of the study report?

THE MINISTER OF STATE OF THE MINISTRY OF NON-CONVENTIONAL ENERGY SOURCES (SHRI M. KANNAPPAN): (a) The Ministry of Non-Conventional Energy Sources has prepared a detailed plan for exploitation of Non-Conventional Energy Sources in the country during the Ninth Five Year Plan period. The physical targets fixed under various Non-conventional Energy programmes during the Ninth Five Year Plan period are given in the enclosed statement I. (*See below*)

(b) On the basis of various studies sponsored / undertaken by the Government, the estimated broad potential of various Non-conventional Energy Sources in the country is given in the enclosed statement II.

STATEMENT-I

Details of Programme-wise Physical Targets Planned during Ninth Five Year Plan Period

Sl. No.	Programmes /Schemes	9th Plan Physical Targets
1.	Biogas	10 Lakhs
2.	Community / Institutional / Night-soil based Biogas Plants	800 Nos.
3.	Improved chulha	150 lakhs
4.	Biomass / Gasifier	40MW
5.	Integrated Rural Energy Programme (IREP)	660 (Old Blocks) 200 (New Bocks)
6.	Solar Photovoltaic (SPV) Demonstration	
	SPV Home Light	2 Lakhs
	SPV Lanterns	3 Lakhs
	SPV Power Plants	1.6 MW
7.	SPV Pumps	4000 Nos.
8.	Solar Thermal (ST) Energy	
	Solar Water Heating System (M.Sq. collector area)	1.5 Lakh
	Solar Cooker	1.5 Lakh Nos.
9.	Wind Pumps Hybrid Systems	1000 Nos. 250 KW

Sl. No.	Programmes/Schemes	9th Plan Physical Targets
10.	Wind Power	1000 MW
11.	Small Hydro Power (SHP)	130 MW
	(Water Mill)	700 Nos.
	(Repair Maintenance)	65MW
12.	Biomass Power	314MW
13.	Solar Power	141.5 MW
14.	Urban Industrial & National Bio-energy Board	42 MW

MW = Mega Watt; KW = Kilo Watt; M.Sq. = Meter Square

STATEMENT-II

Details of estimated potential in the Renewable Energy Sector in the country

	Soruce /System	Estimated Potential
1.	Biogas plants (No.)	120 lakh
2.	Improved Chulha (No.)	12 crores
3.	Biomass Power	17.000 MW
4.	Bagasse based Cogeneration	3500MW
5.	Solar Photovoltaic	20 MW / sq.km.
6.	Solar Thermal	35 MW / sq.km.
	Solar Water Heating Systems	30 million square meter collector area
7.	Wind Power 45,000 MW	
8.	Small Hydro Power 10.000 MW	
9.	Energy Recovery from wastes 1700 MW	

MW = Mega-watt Sq. Km. = Square Kilometer

Development of Solar Energy in Assam

4801. SHRI PRAKANTA WARISA: Will the Minister of NON-CONVENTIONAL ENERGY SOURCES be pleased to state:

(a) the details of Central grants sanctioned for the development of solar energy during the last five years and till date in the State of Assam; and